IMPLEMENTATION OF VOTER VERIFICATION SCHEME USING PRE-ENCRYPTED BALLOT ON ELECTRONIC VOTING SYSTEM

Student Name : Labib Fayumi
Student ID : 5105100072
Department : Informatics FTIf-ITS
Advisor I : Sarwosri, S.Kom.,M.T.
Advisor II : Wahyu Suadi, S.Kom., M.Kom.

Abstract
The rapid growth of internet users in the community of people, making the electronic voting (e-voting) system was chosen as a replacement alternative to conventional elections. Internet technology that is able to provide easy access to the general public with coverage of virtually unlimited, is judged to have potentials which are very helpful for the utilization of e-voting system. In fact, in line with declining levels of voter participation in the electoral process some later period, e-voting began not merely seen as an alternative but also as a necessity.

One thing that became obstacles for the implementation of e-voting is a security issue. Many people argue that e-voting system is vulnerable to fraud because cyber crime activities could have attacked the existing system. Therefore, a reliable method that is able to ensure that the e-voting system is completely safe must be required.

Voter verification with pre-encrypted ballot has an important feature that allows a voter to ensure that their votes actually recorded and does not altered. In addition, this method could make voters believe that their voices have been included in the counting process. In other words, there are two different contexts that the priority of these methods, namely: a valid voice data recording and accuracy of vote counting.

Keyword :
e-voting, voter verification, pre-encrypted ballot, online election